Title (en)
WELLBORE FAILURE ANALYSIS AND ASSESSMENT

Title (de)
ANALYSE UND BEWERTUNG VON BOHRLOCHVERSAGEN

Title (fr)
ANALYSE ET ÉVALUATION DE DÉFAILLANCE DE PUITS DE FORAGE

Publication
EP 3824159 A1 20210526 (EN)

Application
EP 19746363 A 20190716

Priority
• US 201816036363 A 20180716
• US 2019041929 W 20190716

Abstract (en)
[origin: US2020018160A1] Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for improving wellbore stability and minimizing wellbore failure issues. In one aspect, a method includes receiving, for a well site, post-drilling parameters; clustering the received post-drilling parameters into groups based on an information type of each post-drilling parameter; generating a correlation model by applying a numerical analysis or a statistical analysis to the post-drilling parameters included in each of the groups; determining a resolution to avoid wellbore failure at a new well site by processing information regarding the new well site through the correlation model; and transmitting the resolution for implementation at the well site.

IPC 8 full level
E21B 44/00 (2006.01); **E21B 49/00** (2006.01)

CPC (source: EP US)
E21B 44/00 (2013.01 - EP); **E21B 49/00** (2013.01 - EP); **E21B 49/003** (2013.01 - US); **E21B 49/006** (2013.01 - US)

Citation (search report)
See references of WO 2020018492A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 11261730 B2 20220301; **US 2020018160 A1 20200116**; CN 112437829 A 20210302; EP 3824159 A1 20210526; SA 521421026 B1 20230129; WO 2020018492 A1 20200123

DOCDB simple family (application)
US 201816036363 A 20180716; CN 201980047615 A 20190716; EP 19746363 A 20190716; SA 521421026 A 20210114; US 2019041929 W 20190716